Refine Search

Search Results -

Terms	Documents
L3 with (michaelis or Km)	18

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

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Search History

DATE: Friday, March 12, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ			
L4	L3 with (michaelis or Km)	18	L4
L3	L2 with creatine	161	L3
L2	creatine amidinohydrolase or creatinase	230	L2
DB=USPT; PLUR=YES; OP=ADJ			
L1	4420562	3	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 18 returned.

☐ 1. Document ID: US 20030119084 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 18 File: PGPB Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119084
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119084 A1

TITLE: Variants of Erwinia-type creatinase

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shao, Zhixin	Penzberg		DE	
Schmuck, Rainer	Benediktbeuern		DE	
Kratzsch, Peter	Antdorf		DE	
Kenklies, Janet	Penzberg		DE	
Weisser, Harald	Bernried		DE	

US-CL-CURRENT: 435/18; 435/227, 435/252.3, 435/320.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 6080553 A

L4: Entry 2 of 18 File: USPT Jun 27, 2000

US-PAT-NO: 6080553
DOCUMENT-IDENTIFIER: US 6080553 A

TITLE: Creatine amidinohydrolase, production thereof and use thereof

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 3. Document ID: US 5932466 A

L4: Entry 3 of 18 File: USPT Aug 3, 1999

h e b b g e e e f e b ef b e

US-PAT-NO: 5932466
DOCUMENT-IDENTIFIER: US 5932466 A
**** See image for Certificate of Correction ****

TITLE: Creatine amidinohydrolase gene, a novel recombinant DNA, and a process for producing creatine amidinohydrolase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Drawi De

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☐ 4. Document ID: US 5451520 A

L4: Entry 4 of 18 File: USPT Sep 19, 1995

US-PAT-NO: 5451520
DOCUMENT-IDENTIFIER: US 5451520 A

TITLE: Creatine amidinohydrolase from alkaligenes sp. ks-85 ferm bp-4487

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Drawi De

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☐ 5. Document ID: US 5047329 A

L4: Entry 5 of 18 File: USPT Sep 10, 1991

US-PAT-NO: 5047329
DOCUMENT-IDENTIFIER: US 5047329 A

TITLE: Method for the measurement of creatine or creatinine and reagents for these measurements

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Drawi De

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☐ 6. Document ID: US 4039384 A

L4: Entry 6 of 18 File: USPT Aug 2, 1977

US-PAT-NO: 4039384
DOCUMENT-IDENTIFIER: US 4039384 A

TITLE: Creatinine amidohydrolase and creatine amidinohydrolase and process for producing them

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Drawi De

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☐ 7. Document ID: JP 09215494 A

L4: Entry 7 of 18 File: JPAB Aug 19, 1997

PUB-NO: JP409215494A
DOCUMENT-IDENTIFIER: JP 09215494 A

h e b b g e e e f e b ef b e

TITLE: NEW CREATINE AMIDINOHYDROLASE, ITS PRODUCTION AND ITS USE

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 8. Document ID: JP 07170979 A

L4: Entry 8 of 18 File: JPAB Jul 11, 1995

PUB-NO: JP407170979A
DOCUMENT-IDENTIFIER: JP 07170979 A
TITLE: NEW CREATINE AMIDINOHYDROLASE AND ITS PRODUCTION

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 9. Document ID: JP 61067486 A

L4: Entry 9 of 18 File: JPAB Apr 7, 1986

PUB-NO: JP361067486A
DOCUMENT-IDENTIFIER: JP 61067486 A
TITLE: NOVEL CREATINE AMIDINOHYDROLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 10. Document ID: JP 61067485 A

L4: Entry 10 of 18 File: JPAB Apr 7, 1986

PUB-NO: JP361067485A
DOCUMENT-IDENTIFIER: JP 61067485 A
TITLE: PREPARATION OF CREATINE AMIDINOHYDROLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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Search Results - Record(s) 11 through 18 of 18 returned.

☐ 11. Document ID: JP 61067484 A

Using default format because multiple data bases are involved.

L4: Entry 11 of 18 File: JPAB Apr 7, 1986

PUB-NO: JP361067484A
DOCUMENT-IDENTIFIER: JP 61067484 A
TITLE: PREPARATION OF CREATINE AMIDINOHYDROLASE

PUBN-DATE: April 7, 1986

INVENTOR-INFORMATION:

NAME	COUNTRY
KIKUCHI, TOSHIRO	
TAKENAKA, HARUO	
AISUI, SHIGENORI	

US-CL-CURRENT: 435/228
INT-CL (IPC): C12N 9/80

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 12. Document ID: EP 1132467 A2

L4: Entry 12 of 18 File: EPAB Sep 12, 2001

PUB-NO: EP001132467A2
DOCUMENT-IDENTIFIER: EP 1132467 A2
TITLE: Novel creatine amidinohydrolase, production thereof and use thereof

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 13. Document ID: EP 790303 A1

L4: Entry 13 of 18 File: EPAB Aug 20, 1997

PUB-NO: EP000790303A1
DOCUMENT-IDENTIFIER: EP 790303 A1
TITLE: Novel creatine amidinohydrolase, production thereof and use thereof

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Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 14. Document ID: EP 790303 A1, JP 09215494 A, US 6080553 A, JP 3075390 B2

L4: Entry 14 of 18 File: DWPI Aug 20, 1997

DERWENT-ACC-NO: 1997-404731
DERWENT-WEEK: 200172
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TITLE: Creatine amidinohydrolase enzyme with low Km - for use in assay for creatine

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 15. Document ID: JP 07265074 A, JP 3114838 B2

L4: Entry 15 of 18 File: DWPI Oct 17, 1995

DERWENT-ACC-NO: 1995-388685
DERWENT-WEEK: 200065
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TITLE: Creatine amidino:hydrolase - catalyses conversion of creatine to sarcosine and urea

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 16. Document ID: DE 4445084 A1, JP 2788174 B2, JP 07170979 A, US 5451520 A

L4: Entry 16 of 18 File: DWPI Jun 22, 1995

DERWENT-ACC-NO: 1995-225787
DERWENT-WEEK: 199838
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TITLE: New creatine amidinohydrolase enzyme from Alcaligenes - useful for determn. of creatine and/or creatinine

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 17. Document ID: JP 63182000 A, JP 94098032 B2, US 5047329 A

L4: Entry 17 of 18 File: DWPI Jul 27, 1988

DERWENT-ACC-NO: 1988-252622
DERWENT-WEEK: 198836
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TITLE: Determining creatine or creatinine - using creatine amidino-hydrolase, by

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enzymatically decomposing N-ethyl glycine and treating with sarcosine oxidase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 18. Document ID: DE 2614114 A, DE 2614114 B, JP 51115989 A, JP 51118884 A, JP 77008394 B, JP 77008395 B, US 4039384 A

L4: Entry 18 of 18 File: DWPI Oct 7, 1976

DERWENT-ACC-NO: 1976-77945X
DERWENT-WEEK: 197642

TITLE: Creatine amid (in)hydrolase enzyme - obtd from strains of Flavobacterium, Micrococcus or Corynebacterium

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 132 467 A2

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
12.09.2001 Bulletin 2001/37

(51) Int Cl.7: **C12N 9/78**, C12N 9/80, C12Q 1/34

(21) Application number: **01113052.3**

(22) Date of filing: **13.02.1997**

(84) Designated Contracting States:
DE FR GB IT

(30) Priority: **13.02.1996 JP 2543596**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
97102270.2 / 0 790 303

(71) Applicant: **Toyo Boseki Kabushiki Kaisha**
Osaka-shi, Osaka 530-8230 (JP)

(72) Inventors:
- **Sogabe, Atsushi,**
  c/oToyo Boseki Kabushiki Kaisha
  Tsuruga-shi, Fukui 914 (JP)
- **Hattori, Takashi,**
  c/oToyo Boseki Kabushiki Kaisha
  Tsuruga-shi, Fukui 914 (JP)
- **Nishiya, Yoshiaki,**
  c/oToyo Boseki Kabushiki Kaisha
  Tsuruga-shi, Fukui 914 (JP)
- **Kawamura, Yoshihisa,**
  c/oToyo Boseki Kabushiki K.
  Tsuruga-shi, Fukui 914 (JP)

(74) Representative:
Helbing, Jörg, Dr. Dipl.-Chem. et al
Patentanwälte
von Kreisler-Selting-Werner,
Postfach 10 22 41
50462 Köln (DE)

Remarks:
- The biological material has been deposited with NIBH under number(s) BP-5374,BP-5375, BP-5376
- This application was filed on 29 - 05 - 2001 as a divisional application to the application mentioned under INID code 62.

(54) Novel creatine amidinohydrolase, production thereof and use thereof

(57) A creatine amidinohydrolase having the following physicochemical properties:

Action: catalyzing the following reaction;

creatine + H_2O → sarcosine + urea

Optimum temperature: about 40 - 50°C
Optimum pH: pH about 8.0 - 9.0
Heat stability: not more than about 50°C (pH 7.5, 30 min)
Km value for creatine in a coupling assay using a sarcosine oxidase and a peroxidase: about 3.5 - 10.0 mM
Molecular weight: about 43,000 (SDS-PAGE)
Isoelectric point: about 3.5,

a method for producing said enzyme, comprising culture of microorganism producing said enzyme, a method for the determination of creatine or creatinine in a sample using said enzyme, and a reagent therefor. According to the present invention, a creatine amidinohydrolase having a smaller Km value than that of the conventionally known creatine amidinohydrolase can be produced in an industrially large amount, and can be used as a routine reagent for clinical tests for determining creatine and creatinine in biological samples.

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